

S/N To be assigned

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Räsänen, et al                      Serial No.: UNKNOWN  
Filed: CONCURRENT HEREWITH              Docket No.: 975.363USW1  
Title: INTERWORKING METHOD AND APPARATUS

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By:   
Name: Kari Arnold

PRELIMINARY AMENDMENT

Box Patent Application  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Please enter the following preliminary amendment into the above-referenced  
application.

ABSTRACT

Please insert the attached abstract into the application as the last page  
thereof.

SPECIFICATION

Please revise the specification by deleting lines 16 through 34 of page 3 and  
lines 1 through 8 of page 4. Marked up pages 3 and 4 showing deleted portion  
attached. Please replace deleted portion with the attached page 3a.

CLAIMS

Please cancel claims 1-24. Please add new claims 25-48 as follows. A clean  
copy of the new claims is included below.

10003344001









Furthermore, a huge spectrum of specifications is used in fixed networks for defining multimedia or video calls with various protocols, transfer capabilities and ways of signaling, e.g. ITU-T H series recommendations and V series recommendations.

In fixed networks, terminals set up a call and negotiate on parameters with inband procedures defined in V.8, V.8bis and V.140.

Thus, flexible interworking is required between different networks, such as mobile and a fixed network, in order to support various services.

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[SUMMARY OF THE INVENTION]

It is therefore an object of the present invention to provide an interworking method and apparatus by means of which the support of various services can be assured.

This object is achieved by an interworking method for a data connection between a first terminal supporting a first processing scheme and a second terminal supporting a second processing scheme, comprising the steps of:  
checking the first and second processing schemes; and  
providing an interworking function for adapting said first processing scheme to said second processing scheme, when said checking step indicates that the first processing scheme is not supported by the second terminal.

Furthermore, the above object is achieved by an interworking apparatus for performing an interworking in a data connection between a first terminal supporting a first

checking means for checking the first and second processing schemes; and

10 Accordingly, a mapping is provided for adapting various  
video phone or multimedia implementations between mobile  
and fixed networks terminals and for setting up a call  
through mobile networks even in cases where the terminals  
are not able to negotiate with inband procedures. The  
15 processing schemes, e.g. error correction levels or  
protocol specifications, of the terminals are checked  
during an intermediate processing which may be performed by  
an interworking function. If the processing scheme used on  
a first transmission leg leading to the first terminal  
20 cannot be used on the other transmission leg leading to the  
second terminal, different processing schemes are used on  
the two legs, and the intermediate processing (e.g.  
interworking function) performs the adaptation or mapping  
between the processing schemes.

25           Thus, an error correction having a higher robustness can be  
provided on the less reliable leg without modifying the  
other terminal having a lower robustness level.

30 Preferably, the checking may be performed by extracting negotiation symbols indicating the first and second processing scheme during a negotiation processing between the first and second terminals, and comparing the extracted negotiation symbols.

Reference D1 discloses a system performing an initialization of an error correction scheme to be used in communication. The protocol conversion controller receives a connection request to the mobile station. The controller  
5 initializes synchronization negotiations for both ARQ and FEC type of error correction schemes. The controller receives synchronization signal for one of the error correction schemes and continues to use said selected protocol.

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However, the teaching of document D1 is not concerned with an end-to-end signaling.

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Hence, it is an object of the present invention to provide an interworking method and an interworking apparatus by means of which the above mentioned drawbacks can be avoided, i.e. by means of which the support of various services can be assured while taking account of involved end-to-end signaling.

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According to the present invention, this object is achieved by an interworking method as defined in claim 1.

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Furthermore, the above object is achieved by an interworking apparatus according to claim 12.

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Advantageous further refinements of the present invention are set out in the respective dependent claims.

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48. (NEW) An apparatus according claim 36, wherein said data connection is a multimedia connection.

**REMARKS**

The above preliminary amendment is made to insert an abstract page into the application, revise the specification and to enter new claims 25 through 48

Applicant respectfully requests that this preliminary amendment be entered into the record prior to calculation of the filing fee and prior to examination and consideration of the above-identified application.

If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicant's attorney of record, Michael B. Lasky at 952/912-0527.

Respectfully submitted,

Altera Law Group, LLC  
6500 City West Parkway – Suite 100  
Minneapolis, MN 55344-7701  
952-912-0527

Date: November 13, 2001

By: 

Michael B. Lasky  
Reg. No. 29,555  
MBL/blj

10089311  
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